WHAT IS CLAIMED IS:

A liquid dishwashing detergent composition characterized by

- (a) from 0.0001% to 5%, of an amylase enzyme; and
- (b) at least 0.5% of a suds booster;

wherein the composition has especially desirable greasy soil removal performance when used to clean heavily soiled kitchen articles and is substantially free/of an ingredient selected from the group consisting of hydrogen peroxide and chelants having a Log K of greater than 3.0.

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- 2. A composition according to Claim 1 wherein the composition is additionally substantially free of amine oxide.
- 3. A composition according to any of Claims 1/2 wherein the composition is further characterized by amine oxide, from which substantially all of the hydrogen peroxide has been removed so that the amine oxide contains less than 0.02% of hydrogen peroxide.
- 4. A composition according to any of Claims 1-3 wherein the amylase enzyme has a specific activity at least 25% higher than the specific activity of Termamyla at a temperature range of 25°C to 55°C and at a pH value in the range of 8 to 10, measured by the Phadebasâ aamylase activity assay.
- 5. A process for making a liquid dishwashing detergent composition containing substantially no hydrogen peroxide characterized by the steps of:
 - providing two or more detergent ingredients, at least one of the detergent ingredients characterized by hydrogen perdxide;
 - mixing together said two or more ingredients to form a detergent premix; (b)
 - (c) adding an antioxidant to the detergent premix to form a peroxide-neutralized detergent premix; and
 - (d) adding amylase enzymes, and optionally one or more detergent adjuvants to the peroxide-neutralized detergent premix, wherein detergent adjuvants are substantially free of hydrogen peroxide.

- 6. A process according to any of Claims 1-5 wherein the detergent ingredients are characterized by amine oxide and wherein the amine oxide contains hydrogen peroxide, present as an impurity.
- 7. A process for making a liquid dishwashing detergent composition containing substantially no hydrogen peroxide characterized by the steps of:
 - (a) providing a quantity of amine oxide containing hydrogen peroxide;
 - (b) adding a sufficient amount of an antioxidant to the quantity of amine oxide to from a detergent premix whereby the amount of hydrogen peroxide in the quantity of amine oxide is less than 0.02%; and
 - (c) adding amylase enzymes, and optionally one or more detergent adjuvants to the detergent premix, wherein the detergent adjuvants are substantially free of hydrogen peroxide.
- 8. A composition according to any of Claims 1-7 wherein the composition is substantially free of chelants having a Log K of greater than 1.5.
- 9. A composition according to any of Claims 1-8 wherein the amylase enzyme has a calcium binding constant of Ca_{bind} and the composition is additionally substantially free of chelants having a calcium binding constant of greater than 0.75*Ca_{bind}.
- 10. A composition according to any of Claims 1-9 wherein the composition is characterized by 0.0001% to 0.05%.

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